

**IN THE CLAIMS:**

Please amend the claims as follows (all pending claims are reproduced for the Examiner's convenience):

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1. (Amended) A peptide encoded by a nucleotide sequence selected from SEQ ID NO:1 and SEQ ID NO:6 for use in medicine.
2. (Amended) Antibodies directed against a peptide encoded by a nucleotide sequence selected from SEQ ID NO:1 and SEQ ID NO:6 for use in medicine.
3. (Amended) A nucleotide sequence selected from SEQ ID NO:1 and SEQ ID NO:6 for use in medicine.
4. (Amended) A vaccine for the protection against diseases caused by *Salmonella enterica* subspecies I, comprising a peptide encoded by a nucleotide sequence selected from SEQ ID NO:1, or antibodies directed against said peptide and, optionally, a pharmaceutically acceptable carrier.
5. (Amended) A vaccine for the protection against diseases caused by *Salmonella enterica* subspecies I serovar Typhi, comprising a peptide encoded by a nucleotide sequence selected from SEQ ID NO:6 or antibodies directed against said peptide and, optionally, a pharmaceutically acceptable carrier.

6. (Amended) A nucleic acid vaccine for the protection against diseases caused by *Salmonella enterica* subspecies I, comprising a nucleic acid sequence selected from SEQ ID NO:1 and, optionally, a pharmaceutically acceptable carrier.

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7. (Amended) A nucleic acid vaccine for the protection against diseases caused by *Salmonella enterica* subspecies I serovar Typhi, comprising a nucleic acid sequence selected from SEQ ID NO:6 and, optionally, a pharmaceutically acceptable carrier.

8. (Amended) A vector vaccine for the protection against diseases caused by *Salmonella enterica* subspecies I, comprising a host in which a recombinant vector comprising a nucleic acid sequence selected from SEQ ID NO:1, has been inserted and, optionally, a pharmaceutically acceptable carrier.

9. (Amended) A vector vaccine for the protection against diseases caused by *Salmonella enterica* subspecies I serovar Typhi, comprising a host in which a recombinant vector comprising a nucleic acid sequence selected from SEQ ID NO:6, has been inserted and, optionally, a pharmaceutically acceptable carrier.

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10. A method for vaccinating a mammal against diseases caused by *Salmonella enterica* subspecies I, comprising administering a vaccine according to claim 4 to said mammal.

11. A method for vaccinating a mammal against diseases caused by *Salmonella enterica* subspecies I serovar Typhi, comprising administering a vaccine according to claim 5 to said mammal.

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12. (Amended) Antibodies directed against a peptide encoded by a nucleotide sequence selected from SEQ ID NO:1, and from SEQ ID NO:6, for use in a diagnostic method.

13. (Amended) Peptide encoded by a nucleotide sequence selected from SEQ ID NO:1, and SEQ ID NO:6, for use in a diagnostic method.

14. (Amended) Primers for, or probes that hybridize with, a nucleotide sequence selected from SEQ ID NO:1 and SEQ ID NO:6, for use in a diagnostic method for the purpose of detecting *Salmonella enterica* subspecies I.

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15. A method for vaccinating a mammal against diseases caused by *Salmonella enterica* subspecies I, comprising administering a vaccine according to claim 6 to said mammal.

16. A method for vaccinating a mammal against diseases caused by *Salmonella enterica* subspecies I, comprising administering a vaccine according to claim 8 to said mammal.

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17. A method for vaccinating a mammal against diseases caused by *Salmonella enterica* subspecies I serovar Typhi, comprising administering a vaccine according to claim 7 to said mammal.

18. A method for vaccinating a mammal against diseases caused by *Salmonella enterica* subspecies I, comprising administering a vaccine according to claim 9 to said mammal.